

Low Volume Settling Ponds Sampling and Analysis Report

The work consisted of conducting in-situ dredge material sampling and analytical laboratory analysis at Low Volume Settling Ponds (LVSP) C and D in accordance with the requirements of Condition I.F.11 of Possum Point Power Station's VPDES Permit (Permit No. VA0002071).

Project Background

The LVSP are located southeast of the Possum Point Power Station near the inlet between Quantico Creek and the Potomac River. The LVSP consist of four separate ponds (A, B, C, and D) that slope to the southwest and eventually discharge into an outfall pipe (Outfall 004) into Quantico Creek. The ponds were previously used to collect runoff from the coal storage pile at the station, until coal combustion ceased in March 2003.

Based on initial evaluations of the ponds conducted by Dominion, only LVSP C and LVSP D require dredging as part of the closure activities. Based on a review of available information concerning the pond dimensions, it is estimated that LVSP C contains approximately 4,100 cubic yards (CY) of ash while LVSP D contains approximately 7,200 CY of ash. The thickness of ash is expected to vary at the bottom of each pond, but it is estimated that the average thickness is approximately two feet.

As part of potential clean closure construction activities for the LVSPs, ash is proposed to be mechanically dredged for LVSP C and LVSP D and transported to Pond D. In order to meet the requirements of Condition I.F.11 of the VPDES Permit, the dredge material was sampled and analyzed.

Scope of Work

The LVSP sampling and laboratory analysis were completed in accordance with applicable state and federal guidelines, regulations, and requirements as applicable to the subsurface conditions encountered. The sampling and laboratory analysis evaluated the ash material for comparison to criteria established under Condition I.F.11 of the VPDES Permit.

In accordance with Condition I.F.11 of the VPDES Permit, for volumes between 1,000 CY and 50,000 CY, two representative samples of dredge material are required. The samples should be a composite of the proposed dredge material to the depth of the intended dredge. Based on evaluation of the ash thickness and pond dimensions, the combined dredge volume from LVSP C and LVSP D has been estimated to be approximately 11,300 CY. Using a volume estimate factor of 20% to account for additional volumes due to estimation error and over excavation of pond bottom material, the final estimated combined volume of dredge material for LVSP C and LVSP D is approximately 13,600 CY.

Based on an estimated 13,600 CY of combined dredge material, and in accordance with the requirements of two samples per dredge volume between 1,000 CY and 50,000 CY, a total of two representative samples of the planned dredge material volume were collected.

Sample Location Determination

Sample locations were selected to provide a representative sample of the dredge materials that will be placed in Ash Pond D and based on available access to each pond with an extended arm backhoe. Approximate sample locations are depicted on the attached Figure 1 (Exhibit A) as dredged trenches excavated from each pond.

Sample Collection

An extended arm backhoe was used to dredge two locations in each pond and recover dredge material for sample collection. The dredge trenches were excavated to a depth which penetrated the full thickness of ash and extended into the pond bottom material. For each pond, the two dredge samples were examined by the GAI field environmental scientist immediately after removal from the bucket, visually characterized, and inspected for the presence of staining, discoloration, separate-phase hydrocarbon product, or other visible indicators of contamination. The dredge samples were scanned with a photoionization detector (PID), calibrated daily to isobutylene, for the presence and concentration of volatile organic vapors.

GAI collected one environmental sample from each pond (LV C and LV D) for laboratory analyses to evaluate the proposed dredge material. The sample collected for laboratory analysis of all parameters, excluding the volatile organic fraction, was collected as a single composite from the two dredge trenches. A composite sample was collected by retaining a portion of each dredge sample retrieved from the backhoe bucket in a clean disposable container. The retained sample was transferred to a stainless steel mixing bowl and thoroughly mixed. The thoroughly mixed sample was then transferred in equal portions to appropriate laboratory supplied sample jars.

For collection of the volatile organic fraction, each dredge sample was visually examined for the presence of suspected impacts and screened with a PID. Soil samples for volatile organic analyses were selected from a discrete portion exhibiting the highest PID readings or other indicators of possible impacts. If no indicators of potential impacts were observed, the sample was collected from a randomly selected portion of the dredge material. Samples collected for the volatile organic fraction analyses were transferred into the appropriate laboratory provided sample jars or pre-preserved sample vials depending on the analyses required.

Equipment used for sample collection was properly decontaminated before use to prevent cross-contamination from prior sampling locations. Field sampling equipment used to collect or hold non-aqueous samples were decontaminated prior to use as follows:

1. Remove visible contamination from the equipment using a brush and/or paper towel saturated with potable water and laboratory grade soap.
2. Rinse the equipment with potable water to remove residual soap and solids.
3. Rinse the equipment with distilled/deionized water meeting ASTM Type II specifications.

Laboratory Analysis

Samples collected for laboratory analysis were properly labeled with the sampling time, date, and sample identification, and were immediately placed into an iced chest and maintained at four degrees Celsius. Samples were submitted, under chain of custody procedures, to ALS Environmental, a VA certified analytical laboratory, under a standard turn-around for results. Samples were submitted for analysis of the required parameters and using appropriate laboratory test methods as specified in Condition 11 of VPDES Permit No. VA0002071.

Reporting

Results of the completed laboratory analysis are presented in the attached Exhibit B. Analytical results are presented on the appropriate VPDES Permit No. VA0002071, Dredge Spoils Monitoring, Attachment B forms. The ALS laboratory analytical data reports providing all results for the submitted samples are provided in Exhibit C. Analytical results indicate all constituent concentrations are below applicable threshold values provided in Attachment B of VPDES Permit No. VA0002071.

EXHIBIT A
Figure 1 – Sample Locations



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— Approximate Dredge Sample Location

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Not to Scale

Figure 1 - Sample Locations
Low Volume Settling Ponds C and D
Sampling and Analysis

EXHIBIT B
VPDES Permit No. VA0002071 Attachment B Forms



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DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/l)	Reporting Results ⁽¹⁾ (mg/l)	Sample Type ⁽²⁾	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		m,p-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

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DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	2.6	< 2.6	G
457		Arsenic III	1632	0.346	1.78	G
441	16055-83-1	Chromium III	Calculation	6.1	35.6	G
231	18540-29-9	Chromium VI	7196A	5.9	< 5.9	G
442	744-50-8	Copper	6020A	6.5	272	G
445	7440-02-0	Nickel	6020A	6.5	71.6	G
	7440-28-0	Thallium	6020A	1.3	< 1.3	G
448	7440-66-6	Zinc	6020A	6.5	296	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0254	< 0.0254	G
334		Chlorpyrifos Dursban	8141B	0.106	< 0.106	G
--	72-54-8	DDD	8081B	0.0494	< 0.0494	G
--	72-55-9	DDE	8081B	0.0494	< 0.0494	G
335	50-29-3	DDT	8081B	0.0494	< 0.0494	G
336	8065-48-3	Demeton	8141B	0.106	< 0.106	G
337	60-57-1	Dieldrin	8081B	0.0494	< 0.0494	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0254	< 0.0254	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0494	< 0.0494	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0494	< 0.0494	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0494	< 0.0494	G
340	86-50-0	Guthion	8141B	0.106	< 0.106	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0254	< 0.0254	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0254	< 0.0254	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0254	< 0.0254	G
--	143-50-0	Kepone	8270D	2.94	< 2.94	G
343	121-75-5	Malathion	8141B	0.106	< 0.106	G
345	2385-85-5	Mirex	8081B	0.0494	< 0.0494	G
346	56-38-2	Parathion	8141B	0.106	< 0.106	G
--	1336-36-3	Total PCB	8082A	0.099	< 0.099	G
641	53469-21-9	PCB-1242	8082A	0.099	< 0.099	G
642	11097-69-1	PCB-1254	8082A	0.099	< 0.099	G
643	11104-28-2	PCB-1221	8082A	0.099	< 0.099	G
644	11141-16-5	PCB-1232	8082A	0.099	< 0.099	G
645	12672-29-6	PCB-1248	8082A	0.099	< 0.099	G
618	11096-82-5	PCB-1260	8082A	0.099	< 0.099	G
646	12674-11-2	PCB-1016	8082A	0.099	< 0.099	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.294	< 0.294	G
275	120-12-7	Anthracene	8270D	0.294	< 0.294	G
--	92-87-5	Benzidine	8270D	2.35	< 2.35	G
276	56-55-3	Benzo(a) anthracene	8270D	0.294	< 0.294	G

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DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.294	< 0.294	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.294	< 0.294	G
277	50-32-8	Benzo(a)pyrene	8270D	0.294	< 0.294	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.294	< 0.294	G
279	102-60-1	Bis 2-Chlororoiso-Propyl Ether	8270D	0.294	< 0.294	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.294	< 0.294	G
--	91-58-7	2-Chloronaphthalene	8270D	0.294	< 0.294	G
282	218-01-9	Chrysene	8270D	0.294	< 0.294	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.294	< 0.294	G
206	84-74-2	Dibutyl phthalate	8270D	0.294	< 0.294	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.294	< 0.294	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.294	< 0.294	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.440	< 0.440	G
285	84-66-2	Diethyl phthalate	8270D	0.294	< 0.294	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	8270D	0.294	< 0.294	G
286	131-11-3	Dimethyl Phthalate	8270D	0.294	< 0.294	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.294	< 0.294	G
287	206-44-0	Fluoranthene	8270D	0.294	< 0.294	G
288	86-73-7	Fluorene	8270D	0.294	< 0.294	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.793	< 0.793	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.294	< 0.294	G
650	78-59-1	Isophorone	8270D	0.294	< 0.294	G
293	91-20-3	Naphthalene	8270D	0.294	< 0.294	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.294	< 0.294	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.294	< 0.294	G
575	621-64-7	N-Nitrosodi-n-propylamine	8270D	0.294	< 0.294	G
296	129-00-0	Pyrene	8270D	0.294	< 0.294	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.294	< 0.294	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.131	< 0.131	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0262	< 0.0262	G
484	75-25-2	Bromoform	8260B	0.0052	< 0.0052	G
652	124-48-1	Chlorodibromomethane	8260B	0.0052	< 0.0052	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0052	< 0.0052	G
244	75-27-4	Dichlorobromomethane	8260B	0.0052	< 0.0052	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0052	< 0.0052	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0052	< 0.0052	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	8260B	0.0105	< 0.0105	G
172	100-41-4	Ethylbenzene	8260B	0.0052	< 0.0052	G
--	74-83-9	Methyl Bromide	8260B	0.0052	< 0.0052	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0262	< 0.0262	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0052	< 0.0052	G

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DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
222	108-88-3	Toluene	8260B	0.0052	< 0.0052	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0052	< 0.0052	G
155	79-01-6	Trichloroethylene	8260B	0.0052	< 0.0052	G
Acids Extractable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.793	< 0.793	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.587	< 0.587	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.793	< 0.793	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.793	< 0.793	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.587	< 0.587	G
175	108-95-2	Phenol	8270D	0.793	< 0.793	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.73	< 0.73	G
350		Tributyltin	Krone	0.0029	< 0.0029	G
257		TPH (Total petroleum Hydrocarbons)	9071B	605	5770	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

⁽²⁾ Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported

⁽³⁾ Any approved method presented in 40 CFR Part 136

⁽⁴⁾ The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/l)	Reporting Results ⁽¹⁾ (mg/l)	Sample Type ⁽²⁾	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

00014558

DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	4.7	< 4.7	G
457		Arsenic III	1632	0.125	0.877	G
441	16055-83-1	Chromium III	Calculation	10	80.5	G
231	18540-29-9	Chromium VI	7196A	9.8	< 9.8	G
442	744-50-8	Copper	6020A	11.8	417	G
445	7440-02-0	Nickel	6020A	11.8	69.7	G
	7440-28-0	Thallium	6020A	2.4	< 2.4	G
448	7440-66-6	Zinc	6020A	11.8	440	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0419	< 0.0419	G
334		Chlorpyrifos Dursban	8141B	0.172	< 0.172	G
--	72-54-8	DDD	8081B	0.0814	< 0.0814	G
--	72-55-9	DDE	8081B	0.0814	< 0.0814	G
335	50-29-3	DDT	8081B	0.0814	< 0.0814	G
336	8065-48-3	Demeton	8141B	0.172	< 0.172	G
337	60-57-1	Dieldrin	8081B	0.0814	< 0.0814	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0419	< 0.0419	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0814	< 0.0814	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0814	< 0.0814	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0814	< 0.0814	G
340	86-50-0	Guthion	8141B	0.172	< 0.172	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0419	< 0.0419	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0419	< 0.0419	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0419	< 0.0419	G
--	143-50-0	Kepone	8270D	4.81	< 4.81	G
343	121-75-5	Malathion	8141B	0.172	< 0.172	G
345	2385-85-5	Mirex	8081B	0.0814	< 0.0814	G
346	56-38-2	Parathion	8141B	0.172	< 0.172	G
--	1336-36-3	Total PCB	8082A	0.16	< 0.16	G
641	53469-21-9	PCB-1242	8082A	0.16	< 0.16	G
642	11097-69-1	PCB-1254	8082A	0.16	< 0.16	G
643	11104-28-2	PCB-1221	8082A	0.16	< 0.16	G
644	11141-16-5	PCB-1232	8082A	0.16	< 0.16	G
645	12672-29-6	PCB-1248	8082A	0.16	< 0.16	G
618	11096-82-5	PCB-1260	8082A	0.16	< 0.16	G
646	12674-11-2	PCB-1016	8082A	0.16	< 0.16	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.481	< 0.481	G
275	120-12-7	Anthracene	8270D	0.481	< 0.481	G
--	92-87-5	Benzidine	8270D	3.85	< 3.85	G
276	56-55-3	Benzo(a)anthracene	8270D	0.481	< 0.481	G

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DEPARTMENT OF ENVIRONMENTAL QUALITY

Dredge Spoils Monitoring

ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.481	< 0.481	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.481	< 0.481	G
277	50-32-8	Benzo(a)pyrene	8270D	0.481	< 0.481	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.481	< 0.481	G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	8270D	0.481	< 0.481	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.481	< 0.481	G
--	91-58-7	2-Choronaphthalene	8270D	0.481	< 0.481	G
282	218-01-9	Chrysene	8270D	0.481	< 0.481	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.481	< 0.481	G
206	84-74-2	Dibutyl phthalate	8270D	0.481	< 0.481	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.481	< 0.481	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.481	< 0.481	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.721	< 0.721	G
285	84-66-2	Diethyl phthalate	8270D	0.481	< 0.481	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	8270D	0.481	< 0.481	G
286	131-11-3	Dimethyl Phthalate	8270D	0.481	< 0.481	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.481	< 0.481	G
287	206-44-0	Fluoranthene	8270D	0.481	0.768	G
288	86-73-7	Fluorene	8270D	0.481	< 0.481	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	1.30	< 01.30	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.481	< 0.481	G
650	78-59-1	Isophorone	8270D	0.481	< 0.481	G
293	91-20-3	Naphthalene	8270D	0.481	< 0.481	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.481	< 0.481	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.481	< 0.481	G
575	621-64-7	N-Nitrosodi-n-propylamine	8270D	0.481	< 0.481	G
296	129-00-0	Pyrene	8270D	0.481	0.67	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.481	< 0.481	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.201	< 0.201	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0402	< 0.0402	G
484	75-25-2	Bromoform	8260B	0.008	< 0.008	G
652	124-48-1	Chlorodibromomethane	8260B	0.008	< 0.008	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.008	< 0.008	G
244	75-27-4	Dichlorobromomethane	8260B	0.008	< 0.008	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.008	< 0.008	G
261	78-87-5	1,2-Dichloropropane	8260B	0.008	< 0.008	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	8260B	0.0161	< 0.0161	G
172	100-41-4	Ethylbenzene	8260B	0.008	< 0.008	G
--	74-83-9	Methyl Bromide	8260B	0.008	< 0.008	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0402	< 0.0402	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.008	< 0.008	G

00014550

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level ⁽¹⁾ (mg/kg)	Reporting Results ⁽¹⁾ (mg/kg)	Sample Type ⁽²⁾
222	108-88-3	Toluene	8260B	0.008	< 0.008	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.008	< 0.008	G
155	79-01-6	Trichloroethylene	8260B	0.008	< 0.008	G
Acids Extractable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	1.3	< 1.3	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.962	< 0.962	G
269	105-67-9	2,4 Dimethylphenol	8270D	1.3	< 1.3	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	1.3	< 1.3	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.962	< 0.962	G
175	108-95-2	Phenol	8270D	1.3	< 1.3	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	1.3	< 1.3	G
350		Tributyltin	Krone	0.0052	< 0.0052	G
257		TPH (Total petroleum Hydrocarbons)	9071B	980	6620	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

⁽¹⁾ Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

⁽²⁾ Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported

⁽³⁾ Any approved method presented in 40 CFR Part 136

⁽⁴⁾ The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

EXHIBIT C
Analytical Laboratory Reports



00014552

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

July 9, 2015

Mr. Ed Sciulli
GAI Consultants
385 E. Waterfront Dr.
Homestead, PA 15120

Certificate of Analysis

Revised Report - 7/9/2015 11:20:00 AM - See workorder comment section for explanation

Project Name:	2015-VIRGINIA POWER-POSSUM	Workorder:	2076025
Purchase Order:		Workorder ID:	Dominion Possum Point

Dear Mr. Sciulli:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 10, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Katie Tuite



Ms. Shannon Butler
Project Coordinator

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2076025001	ABC 2 Grab	Solid	6/9/2015 11:00	6/10/2015 19:50	Collected by Client
2076025002	ABC 2 Comp	Solid	6/9/2015 11:15	6/10/2015 19:50	Collected by Client
2076025003	ABC 3 Grab	Solid	6/9/2015 09:00	6/10/2015 19:50	Collected by Client
2076025004	ABC 3 Comp	Solid	6/9/2015 09:15	6/10/2015 19:50	Collected by Client
2076025005	ABC 4 Grab	Solid	6/9/2015 12:45	6/10/2015 19:50	Collected by Client
2076025006	ABC 4 Comp	Solid	6/9/2015 13:00	6/10/2015 19:50	Collected by Client
2076025007	Low Volume C Grab	Solid	6/10/2015 10:00	6/10/2015 19:50	Collected by Client
2076025008	Low Volume C Comp	Solid	6/10/2015 10:05	6/10/2015 19:50	Collected by Client
2076025009	Low Volume D Grab	Solid	6/10/2015 10:10	6/10/2015 19:50	Collected by Client
2076025010	Low Volume D Comp	Solid	6/10/2015 10:15	6/10/2015 19:50	Collected by Client

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SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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PROJECT SUMMARY

Workorder: 2076025 Dominion Possum Point

Workorder Comments

See attached subcontracted tributyltin results from ALS-Kelso. VLF 7/7/15

See attached subcontracted trivalent arsenic results from Brooks Rand. VLF 7/7/15

This report was modified on 7/7/15 to attach subcontracting and add PCB. VLF

Sample Comments

Lab ID: 2076025002 **Sample ID:** ABC 2 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025004 **Sample ID:** ABC 3 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025005 **Sample ID:** ABC 4 Grab **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

Lab ID: 2076025006 **Sample ID:** ABC 4 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025008 **Sample ID:** Low Volume C Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025010 **Sample ID:** Low Volume D Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025001	Date Collected:	6/9/2015 11:00	Matrix:	Solid
Sample ID:	ABC 2 Grab	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr	
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:25	JPA	D	
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA	D	
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	98.6		%	62 - 133	SW846 8260B		6/18/15 08:25	JPA	D	
4-Bromofluorobenzene (S)	86.9		%	79 - 114	SW846 8260B		6/18/15 08:25	JPA	D	
Dibromofluoromethane (S)	98.5		%	78 - 116	SW846 8260B		6/18/15 08:25	JPA	D	
Toluene-d8 (S)	97.7		%	76 - 127	SW846 8260B		6/18/15 08:25	JPA	D	
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	47.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Acrylonitrile	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromoform	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
2-Butanone	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	3.8	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Methylene Chloride	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Toluene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
4-Bromofluorobenzene (S)	116		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Dibromofluoromethane (S)	114		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025001	Date Collected:	6/9/2015 11:00	Matrix:	Solid
Sample ID:	ABC 2 Grab	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	108		%	59 - 131	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA	A
WET CHEMISTRY									
Moisture	41.9		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	58.1		%	0.1	S2540G-11		6/11/15 09:19	JP	A



Ms. Shannon Butler
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025002	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	ABC 2 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
SEMIVOLATILES								
Acenaphthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzidine	ND		ug/kg	1310	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(a)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(a)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(b)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(k)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Butylbenzylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Chloronaphthalene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Chlorophenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Chrysene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Di-n-Butylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,2-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,3-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	246	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dichlorophenol	ND		ug/kg	328	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Diethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dimethylphenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Dimethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dinitrophenol	ND		ug/kg	328	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Fluorene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Isophorone	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Kepone	ND		ug/kg	1640	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Naphthalene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitrosodimethylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Phenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025002	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	ABC 2 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	85.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	88.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	70.6		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	72.2		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	65.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	65.4		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	72		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	69.9		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	70.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	67.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
Terphenyl-d14 (S)	77.7		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	72.5		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
PCBs									
Total Polychlorinated Biphenyl	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1016	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1221	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1232	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025002	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	ABC 2 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Aroclor-1242	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1248	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1254	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1260	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By
Decachlorobiphenyls (S)	187	1	%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Tetrachloro-m-xylene (S)	112		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
PESTICIDES									
Aldrin	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
alpha-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
beta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
delta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
gamma-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
alpha-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
gamma-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDD	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDE	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDT	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Dieldrin	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan I	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan II	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin Aldehyde	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin Ketone	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Heptachlor	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Methoxychlor	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Mirex	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Toxaphene	ND		ug/kg	111	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	By	Analyzed	By
Decachlorobiphenyls (S)	70.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Tetrachloro-m-xylene (S)	54.8		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
ORGANOPHOSPHORUS COMPOUNDS									
Acetochlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Alachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025002	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	ABC 2 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Atrazine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Azinphos Methyl	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Bolstar	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Bromacil	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Butachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Chlorpyrifos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Coumaphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Cyanizine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Demeton	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Diazinon	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Dichlorovos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Dimethoate	ND		ug/kg	77.6	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
EPN	ND		ug/kg	104	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Ethoprop	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Fensulfothion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Fenthion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Malathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Methyl Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Metolachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Metribuzin	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Mevinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Molinate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Phorate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Prometon	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Propachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Ronnel	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Simazine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Sulfotep	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Tetrachloriphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Tokuthion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Trichloronate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Trifluralin	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025002	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	ABC 2 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	38.5		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	56		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	40		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
WET CHEMISTRY									
Cyanide, Total	ND		mg/kg	0.44	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	819		mg/kg	349	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	42.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	349	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	58.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
METALS									
Trivalent Chromium	ND		mg/kg	3.5	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	0.16		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Arsenic, Total	2.9		mg/kg	0.16	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Chromium, Total	0.61		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Copper, Total	1.7		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Nickel, Total	0.73		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Thallium, Total	ND		mg/kg	0.053	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Zinc, Total	1.1		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
TCLP METALS									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Barium, Total	3.8		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:55	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
TCLP SEMI-VOLATILES									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid
Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Surrogate Recoveries									
2,4,6-Tribromophenol (S)	68.1		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2-Fluorobiphenyl (S)	65.9		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2-Fluorophenol (S)	44.8		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Nitrobenzene-d5 (S)	69.2		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Phenol-d5 (S)	28		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Terphenyl-d14 (S)	78.5		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
TCLP PESTICIDES									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Surrogate Recoveries									
Decachlorobiphenyls (S)	56.4		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Tetrachloro-m-xylene (S)	81.1		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
TCLP HERBICIDES									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
Surrogate Recoveries									
2,4-Dichlorophenylacetic acid (S)	105		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
SUBCONTRACTED ANALYSIS									
Subcontracted Analysis	See attached				Subcontract		6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid
Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025003	Date Collected:	6/9/2015 09:00	Matrix:	Solid
Sample ID:	ABC 3 Grab	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr	
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:43	JPA	D	
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B		6/18/15 08:43	JPA	D	
4-Bromofluorobenzene (S)	85.5		%	79 - 114	SW846 8260B		6/18/15 08:43	JPA	D	
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B		6/18/15 08:43	JPA	D	
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B		6/18/15 08:43	JPA	D	
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	52.9	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Acrylonitrile	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromodichloromethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromoform	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
2-Butanone	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Chlorodibromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.2	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Methylene Chloride	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Toluene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Trichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	110		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
4-Bromofluorobenzene (S)	122		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Dibromofluoromethane (S)	122		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid
Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	117		%	59 - 131	SW846 8260B	6/9/15 JPA	6/11/15 13:29	JPA	A
WET CHEMISTRY									
Moisture	40.8		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	59.2		%	0.1	S2540G-11		6/11/15 09:19	JP	A

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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025004	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	ABC 3 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
SEMIVOLATILES								
Acenaphthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzidine	ND		ug/kg	1440	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(a)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(a)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(b)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(k)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Butylbenzylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Chloronaphthalene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Chlorophenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Chrysene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Di-n-Butylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,2-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,3-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	269	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dichlorophenol	ND		ug/kg	359	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Diethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dimethylphenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Dimethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dinitrophenol	ND		ug/kg	359	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Fluorene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Isophorone	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Kepone	ND		ug/kg	1790	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Naphthalene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitrosodimethylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Phenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025004	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	ABC 3 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	79.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	82.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	70.8		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2-Fluorobiphenyl (S)	72.4		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2-Fluorophenol (S)	64.3		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
2-Fluorophenol (S)	63.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
Nitrobenzene-d5 (S)	70.1		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
Nitrobenzene-d5 (S)	72.2		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
Phenol-d5 (S)	63.4		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
Phenol-d5 (S)	65.8		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
Terphenyl-d14 (S)	65.3		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
Terphenyl-d14 (S)	70		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
PCBs									
Total Polychlorinated Biphenyl	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1016	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1221	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1232	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1242	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1248	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025004	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	ABC 3 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1260	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Surrogate Recoveries									
Decachlorobiphenyls (S)	119	%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO		
Tetrachloro-m-xylene (S)	82.4	%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO		
PESTICIDES									
Aldrin	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
alpha-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
beta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
delta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
gamma-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
alpha-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
gamma-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDD	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDE	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDT	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Dieldrin	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan I	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan II	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan Sulfate	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin Aldehyde	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin Ketone	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Heptachlor	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Heptachlor Epoxide	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Methoxychlor	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Mirex	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Toxaphene	ND		ug/kg	117	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Surrogate Recoveries									
Decachlorobiphenyls (S)	62.4	%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A	
Tetrachloro-m-xylene (S)	43.8	%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A	
ORGANOPHOSPHORUS COMPOUNDS									
Acetochlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Alachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Atrazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Azinphos Methyl	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025004	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	ABC 3 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Bolstar	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Bromacil	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Butachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Chlorpyrifos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Coumaphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Cyanazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Demeton	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Diazinon	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Dichlorovos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Dimethoate	ND		ug/kg	80.2	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
EPN	ND		ug/kg	107	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Ethoprop	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Fensulfothion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Fenthion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Malathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Methyl Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Metolachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Metribuzin	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Mevinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Molinate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Perimidethalin(Prowl)	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Phorate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Prometon	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Propachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Ronnel	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Simazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Sulfotep	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Tetrachlorinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Tokuthion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Trichloronate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Trifluralin	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed By</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	38.3		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A

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Sample ID:	ABC 3 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Surrogate Recoveries									
IS_Triphenylphosphate (S)	65.5		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Surrogate Recoveries									
IS_Triphenylphosphate (S)	55.7		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
WET CHEMISTRY									
Cyanide, Total	ND		mg/kg	0.46	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	805		mg/kg	366	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.5	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	45.4		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	366	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	54.6		%	0.1	S2540G-11		6/11/15 09:19	JP	A
METALS									
Trivalent Chromium	ND		mg/kg	3.7	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	0.13		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Arsenic, Total	3.1		mg/kg	0.17	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Chromium, Total	0.80		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Copper, Total	2.0		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Nickel, Total	0.70		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Thallium, Total	ND		mg/kg	0.057	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Zinc, Total	1.6		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
TCLP METALS									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Barium, Total	3.9		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:56	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
TCLP SEMI-VOLATILES									
m-p-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A

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Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Surrogate Recoveries								
2,4,6-Tribromophenol (S)	68.6	%		40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
2-Fluorobiphenyl (S)	65.4	%		50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
2-Fluorophenol (S)	47.9	%		20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Nitrobenzene-d5 (S)	69.7	%		40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Phenol-d5 (S)	30.6	%		13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
Terphenyl-d14 (S)	78.1	%		50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 13:44 GEC	A
TCLP PESTICIDES								
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Surrogate Recoveries								
Decachlorobiphenyls (S)	61.2	%		30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
Tetrachloro-m-xylene (S)	76.8	%		30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:42 RWS	A
TCLP HERBICIDES								
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 15:53 KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 15:53 KJH	A
Surrogate Recoveries								
2,4-Dichlorophenylacetic acid (S)	111	%		14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 15:53 KJH	A
SUBCONTRACTED ANALYSIS								
Subcontracted Analysis	See attached				Subcontract		6/16/15 00:00 SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid
Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025005	Date Collected:	6/9/2015 12:45	Matrix:	Solid
Sample ID:	ABC 4 Grab	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr	
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 07:34	JPA	D	
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Tetrachloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Trichloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA	D	
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	93.7		%	62 - 133	SW846 8260B		6/18/15 07:34	JPA	D	
4-Bromofluorobenzene (S)	84.9		%	79 - 114	SW846 8260B		6/18/15 07:34	JPA	D	
Dibromofluoromethane (S)	93.2		%	78 - 116	SW846 8260B		6/18/15 07:34	JPA	D	
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B		6/18/15 07:34	JPA	D	
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	41.0	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Acrylonitrile	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromodichloromethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromoform	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
2-Butanone	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Chlorodibromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
trans-1,2-Dichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,2-Dichloropropane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,3-Dichloropropene, Total	ND		ug/kg	3.3	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Ethylbenzene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Methylene Chloride	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Toluene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2-Trichloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Trichloroethylene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Surrogate Recoveries										
1,2-Dichloroethane-d4 (S)	182	7	%	56 - 124	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
4-Bromofluorobenzene (S)	138	9	%	51 - 128	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Dibromofluoromethane (S)	201	6	%	62 - 123	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid
Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	202	8	%	59 - 131	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP	C
WET CHEMISTRY									
Moisture	45.8		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	54.2		%	0.1	S2540G-11		6/11/15 09:19	JP	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
SEMIVOLATILES								
Acenaphthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzidine	ND		ug/kg	1330	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(a)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(a)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(b)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(k)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Butylbenzylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Chloronaphthalene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Chlorophenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Chrysene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Di-n-Butylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,2-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,3-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	250	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dichlorophenol	ND		ug/kg	333	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Diethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dimethylphenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Dimethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dinitrophenol	ND		ug/kg	333	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Fluorene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Isophorone	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Kepone	ND		ug/kg	1660	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Naphthalene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitrosodimethylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Phenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025006	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	ABC 4 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	82.9		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	86		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
2-Fluorobiphenyl (S)	76.2		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorobiphenyl (S)	74.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
2-Fluorophenol (S)	64.5		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorophenol (S)	63.8		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Nitrobenzene-d5 (S)	74		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Nitrobenzene-d5 (S)	76.2		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Phenol-d5 (S)	64.7		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	62.9		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Terphenyl-d14 (S)	80.6		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	75.2		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
PCBs									
Total Polychlorinated Biphenyl	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1016	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1221	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1232	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1242	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1248	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1254	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1260	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
<i>Surrogate Recoveries</i>									
Decachlorobiphenyls (S)	113		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025006	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	ABC 4 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Tetrachloro-m-xylene (S)	84.8		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
PESTICIDES									
Aldrin	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
alpha-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
beta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
delta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
gamma-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
alpha-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
gamma-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDD	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDE	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDT	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Dieldrin	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan I	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan II	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin Aldehyde	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin Ketone	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Heptachlor	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Methoxychlor	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Mirex	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Toxaphene	ND		ug/kg	110	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
<i>Surrogate Recoveries</i>									
Decachlorobiphenyls (S)	53.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Tetrachloro-m-xylene (S)	52		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
ORGANOPHOSPHORUS COMPOUNDS									
Acetochlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Alachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Atrazine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Azinphos Methyl	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Bolstar	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Bromacil	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Butachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Chlorpyrifos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Coumaphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025006	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	ABC 4 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Cyanizine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Demeton	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Diazinon	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Dichlorovos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
O,O-Diethyl O-pyrazinylphosphor Dimethoate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
EPN	ND		ug/kg	99.2	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Ethoprop	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Fensulfothion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Fenthion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Malathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Methyl Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Metolachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Metribuzin	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Mevinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Molinate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Phorate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Prometon	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Propachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Ronnel	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Simazine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Sulfotep	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Tetrachlorinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Tokuthion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Trichloronate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Trifluralin	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	47.8		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	72.1		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	48		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025006	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	ABC 4 Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
WET CHEMISTRY								
Cyanide, Total	ND		mg/kg	0.42	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF A
Hexane Extractable Material	605		mg/kg	336	SW846 9071B		6/21/15 12:30	AT A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB A
Moisture	41.1		%	0.1	S2540G-11		6/11/15 09:19	JP A
Silica Gel Treated HEM	ND		mg/kg	336	SW846 9071B		6/21/15 12:30	AT A
Total Solids	58.9		%	0.1	S2540G-11		6/11/15 09:19	JP A
METALS								
Trivalent Chromium	ND		mg/kg	3.4	Calculation		6/25/15 16:23	JWB A
Antimony, Total	0.21		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Arsenic, Total	3.9		mg/kg	0.16	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Chromium, Total	0.69		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Copper, Total	2.1		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Nickel, Total	0.85		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Thallium, Total	0.059		mg/kg	0.053	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Zinc, Total	0.87		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
TCLP METALS								
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Barium, Total	3.7		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:57	MNP A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Silver, Total	0.24		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
TCLP SEMI-VOLATILES								
Imp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Surrogate Recoveries									
2,4,6-Tribromophenol (S)	62.2		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
2-Fluorobiphenyl (S)	55		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
2-Fluorophenol (S)	36.6		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Nitrobenzene-d5 (S)	56.8		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Phenol-d5 (S)	23.3		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Terphenyl-d14 (S)	76.2		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
TCLP PESTICIDES									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Surrogate Recoveries									
Decachlorobiphenyls (S)	52.8		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Tetrachloro-m-xylene (S)	64.8		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
TCLP HERBICIDES									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A
Surrogate Recoveries									
2,4-Dichlorophenylacetic acid (S)	119		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A

SUBCONTRACTED ANALYSIS

Subcontracted Analysis See attached Subcontract 6/16/15 00:00 SUB E



Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025007	Date Collected:	6/10/2015 10:00	Matrix:	Solid
Sample ID:	Low Volume C Grab	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
TCLP VOLATILE ORGANICS									
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 07:51	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Tetrachloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Trichloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Surrogate Recoveries									
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B		6/18/15 07:51	JPA	D
4-Bromofluorobenzene (S)	84.8		%	79 - 114	SW846 8260B		6/18/15 07:51	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B		6/18/15 07:51	JPA	D
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B		6/18/15 07:51	JPA	D
VOLATILE ORGANICS									
Acrolein	ND		ug/kg	131	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Acrylonitrile	ND		ug/kg	26.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromodichloromethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromoform	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
2-Butanone	ND		ug/kg	26.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Chlorodibromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,2-Dichloropropane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	10.5	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Ethylbenzene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Methylene Chloride	ND	1	ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Toluene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Trichloroethylene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Surrogate Recoveries									
1,2-Dichloroethane-d4 (S)	104		%	56 - 124	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
4-Bromofluorobenzene (S)	110		%	51 - 128	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid
Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
WET CHEMISTRY									
Moisture	70.9		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	29.1		%	0.1	S2540G-11		6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
 Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
SEMIVOLATILES								
Acenaphthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzidine	ND		ug/kg	2350	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(a)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(a)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(b)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(k)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Butylbenzylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Chloronaphthalene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Chlorophenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Chrysene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Di-n-Butylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,2-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,3-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	440	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dichlorophenol	ND		ug/kg	587	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Diethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dimethylphenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Dimethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dinitrophenol	ND		ug/kg	587	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Fluorene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Isophorone	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Kepone	ND		ug/kg	2940	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Naphthalene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitrosodimethylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Phenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	82.1		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	79.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
2-Fluorobiphenyl (S)	69.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	71.1		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
2-Fluorophenol (S)	71.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	71.7		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	73.5		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	75.7		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
Phenol-d5 (S)	72		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	69.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	67.3		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	72.2		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
PCBs									
Total Polychlorinated Biphenyl	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1016	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1221	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1232	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1242	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1248	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1254	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1260	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Surrogate Recoveries									
Decachlorobiphenyls (S)	101		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Tetrachloro-m-xylene (S)	104		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
PESTICIDES									
Aldrin	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
alpha-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
beta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
delta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
gamma-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
alpha-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
gamma-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDD	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDE	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDT	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Dieldrin	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan I	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan II	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan Sulfate	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin Aldehyde	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin Ketone	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Heptachlor	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Heptachlor Epoxide	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Methoxychlor	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Mirex	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Toxaphene	ND		ug/kg	195	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Surrogate Recoveries									
Decachlorobiphenyls (S)	63.4		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Tetrachloro-m-xylene (S)	44.4		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
ORGANOPHOSPHORUS COMPOUNDS									
Acetochlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Alachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Atrazine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Azinphos Methyl	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Bolstar	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Bromacil	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Chlorpyrifos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Coumaphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Cyanazine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Demeton	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Diazinon	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Dichlorovos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Dimethoate	ND		ug/kg	137	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
EPN	ND		ug/kg	182	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Ethoprop	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Fensulfothion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Fenthion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Malathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Methyl Parathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Metolachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Metribuzin	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Mevinphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Molinate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Parathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Phorate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Prometon	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Propachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Ronnel	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Simazine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Sulfotep	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Tetrachlorinphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Tokuthion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Trichloronate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Trifluralin	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	71.2		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	79.6		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025008	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	Low Volume C Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Surrogate Recoveries									
IS_Triphenylphosphate (S)	111		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
WET CHEMISTRY									
Cyanide, Total	ND		mg/kg	0.73	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	5770		mg/kg	605	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	5.9	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	67.3		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	2990		mg/kg	605	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	32.7		%	0.1	S2540G-11		6/11/15 09:19	JP	A
METALS									
Trivalent Chromium	35.6		mg/kg	6.1	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	2.6	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Arsenic, Total	25.0		mg/kg	3.9	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Chromium, Total	35.6		mg/kg	2.6	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Copper, Total	272		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Nickel, Total	71.6		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Thallium, Total	ND		mg/kg	1.3	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Zinc, Total	296		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
TCLP METALS									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:58	MNP	A3
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
TCLP SEMI-VOLATILES									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
 Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Analyzed	By	Cntr
2,4,6-Tribromophenol (S)	70.7		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2-Fluorobiphenyl (S)	69.3		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2-Fluorophenol (S)	47.5		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Nitrobenzene-d5 (S)	73.9		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Phenol-d5 (S)	29.4		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Terphenyl-d14 (S)	82.9		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
TCLP PESTICIDES									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Analyzed	By	Cntr
Decachlorobiphenyls (S)	75.8		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Tetrachloro-m-xylene (S)	69.1		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
TCLP HERBICIDES									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Analyzed	By	Cntr
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A
SUBCONTRACTED ANALYSIS									
Subcontracted Analysis	See attached				Subcontract		6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid
Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
TCLP VOLATILE ORGANICS									
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:08	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA	D
<i>Surrogate Recoveries</i>									
1,2-Dichloroethane-d4 (S)	95		%	62 - 133	SW846 8260B		6/18/15 08:08	JPA	D
4-Bromofluorobenzene (S)	82.6		%	79 - 114	SW846 8260B		6/18/15 08:08	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B		6/18/15 08:08	JPA	D
Toluene-d8 (S)	94		%	76 - 127	SW846 8260B		6/18/15 08:08	JPA	D
VOLATILE ORGANICS									
Acrolein	ND		ug/kg	201	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Acrylonitrile	ND		ug/kg	40.2	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Bromodichloromethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Bromoform	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Bromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
2-Butanone	ND		ug/kg	40.2	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Chlorodibromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
1,2-Dichloropropane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	16.1	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Ethylbenzene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Methylene Chloride	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Toluene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Trichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
<i>Surrogate Recoveries</i>									
1,2-Dichloroethane-d4 (S)	109		%	56 - 124	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
4-Bromofluorobenzene (S)	120		%	51 - 128	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid
Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
Toluene-d8 (S)	97.2	%	%	59 - 131	SW846 8260B	6/10/15 JPA	6/11/15 14:39 JPA	A
WET CHEMISTRY								
Moisture	79.2	%	%	0.1	S2540G-11		6/11/15 09:19 JP	A
Total Solids	20.8	%	%	0.1	S2540G-11		6/11/15 09:19 JP	A

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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
SEMIVOLATILES								
Acenaphthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzidine	ND		ug/kg	3850	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(a)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(a)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(b)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(k)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Butylbenzylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Chloronaphthalene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Chlorophenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Chrysene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Di-n-Butylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,2-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,3-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	721	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dichlorophenol	ND		ug/kg	962	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Diethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dimethylphenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Dimethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dinitrophenol	ND		ug/kg	962	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Fluoranthene	768		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Fluorene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Isophorone	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Kepone	ND		ug/kg	4810	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Naphthalene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitrosodimethylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Phenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	670		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	90.9		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	94.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
2-Fluorobiphenyl (S)	78.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorobiphenyl (S)	76.7		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
2-Fluorophenol (S)	74		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorophenol (S)	73.5		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
Nitrobenzene-d5 (S)	75.5		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Nitrobenzene-d5 (S)	77.8		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	71.6		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	74.2		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	90.6		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	84.5		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
PCBs									
Total Polychlorinated Biphenyl	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1016	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1221	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1232	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1242	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1248	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1254	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1260	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Surrogate Recoveries									
Decachlorobiphenyls (S)	108		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Tetrachloro-m-xylene (S)	107		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
PESTICIDES									
Aldrin	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
alpha-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
beta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
delta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
gamma-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
alpha-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
gamma-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDD	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDE	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDT	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Dieldrin	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan I	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan II	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan Sulfate	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin Aldehyde	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin Ketone	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Heptachlor	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Heptachlor Epoxide	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Methoxychlor	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Mirex	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Toxaphene	ND		ug/kg	321	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Surrogate Recoveries									
Decachlorobiphenyls (S)	61.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Tetrachloro-m-xylene (S)	46.8		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
ORGANOPHOSPHORUS COMPOUNDS									
Acetochlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Alachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Atrazine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Azinphos Methyl	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Bolstar	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Bromacil	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Chlorpyrifos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Coumaphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Cyanizine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Demeton	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Diazinon	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Dichlorovos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Dimethoate	ND		ug/kg	221	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
EPN	ND		ug/kg	294	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Ethoprop	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Fensulfothion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Fenthion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Malathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Methyl Parathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Metolachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Metribuzin	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Mevinphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Molinate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Parathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Phorate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Prometon	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Propachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Ronnel	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Simazine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Sulfotep	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Tetrachlorinphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Tokuthion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Trichloronate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Trifluralin	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	77.1		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	83.6		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	2076025010	Date Collected:	6/10/2015 10:15	Matrix:	Solid
Sample ID:	Low Volume D Comp	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	60.4		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
WET CHEMISTRY									
Cyanide, Total	ND		mg/kg	1.3	SW846 9012B	6/13/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	6620		mg/kg	980	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	9.8	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	80.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	3380		mg/kg	980	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	20.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
METALS									
Trivalent Chromium	80.5		mg/kg	10.0	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	4.7	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Arsenic, Total	19.2		mg/kg	7.1	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Chromium, Total	80.5		mg/kg	4.7	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Copper, Total	417		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Nickel, Total	69.7		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Thallium, Total	ND		mg/kg	2.4	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Zinc, Total	440		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
TCLP METALS									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:59	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
TCLP SEMI-VOLATILES									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachlorobutadiene	ND	2	ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachloroethane	ND	1	ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Surrogate Recoveries		Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By Cntr
2,4,6-Tribromophenol (S)	66.7		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2-Fluorobiphenyl (S)	67.1		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2-Fluorophenol (S)	45.4		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Nitrobenzene-d5 (S)	69.8		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Phenol-d5 (S)	27.6		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Terphenyl-d14 (S)	79		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
TCLP PESTICIDES									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Surrogate Recoveries		Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By Cntr
Decachlorobiphenyls (S)	62.1		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Tetrachloro-m-xylene (S)	73.9		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
TCLP HERBICIDES									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A
Surrogate Recoveries		Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By Cntr
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A

SUBCONTRACTED ANALYSIS

Subcontracted Analysis See attached Subcontract 6/16/15 00:00 SUB E

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Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
------------	---------	------	-------	-----	--------	-------------	-------------	------

Ms. Shannon Butler
Project Coordinator

ALS Environmental Laboratory Locations Across North America

Canada: Burlington • Calgary • Centre of Excellence • Edmonton • Fort McMurray • Fort St. John • Grande Prairie • London • Mississauga • Richmond Hill • Saskatoon • Thunder Bay
Vancouver • Waterloo • Winnipeg • Yellowknife • **United States:** Cincinnati • Everett • Fort Collins • Holland • Houston • Middletown • Salt Lake City • Spring City • York • **Mexico:** Monterrey

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
 State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2076025002	1	ABC 2 Comp	SW846 8082A	Decachlorobiphenyls
The surrogate Decachlorobiphenyls for method SW846 8082A was outside of control limits. The % Recovery was reported as 187 and the control limits were 46 to 120. This result was reported at a dilution of 1.				
2076025005	6	ABC 4 Grab	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 201 and the control limits were 62 to 123. This result was reported at a dilution of 1.				
2076025005	7	ABC 4 Grab	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 182 and the control limits were 56 to 124. This result was reported at a dilution of 1.				
2076025005	8	ABC 4 Grab	SW846 8260B	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 202 and the control limits were 59 to 131. This result was reported at a dilution of 1.				
2076025005	9	ABC 4 Grab	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 138 and the control limits were 51 to 128. This result was reported at a dilution of 1.				
2076025007	1	Low Volume C Grab	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 139 and the control limits were 68 to 133.				
2076025010	1	Low Volume D Comp	SW846 8270D	Hexachloroethane
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachloroethane. The RPD was reported as 30.1 and the upper control limit is 30.				
2076025010	2	Low Volume D Comp	SW846 8270D	Hexachlorobutadiene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachlorobutadiene. The RPD was reported as 31.9 and the upper control limit is 30.				

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Environmental • Industrial Hygiene • Field Services

34 Dogwood Lane • Middletown, PA 17057 • Tel: 717.944.1430

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:	1 of 1	ALSI Quote #:	Receipt Information (completed by Receiving Lab)
Client Name: ALS Environmental Address: 34 Dogwood Lane Middletown, PA 17057 Contact: Vicki Forney Phone#: (717) 944-5541 Project Name#: Bill To: ALS Environmental TAT <input checked="" type="checkbox"/> Normal Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALSI approval and surcharges. Date Required: Email? <input checked="" type="checkbox"/> -Y almdt.subcontract@ALSGlobal.com Fax? <input type="checkbox"/> -Y No.: _____		Cooler Temp: _____ Therm. ID: _____ No. of Coolers: _____ Y N Initial (If present) Seals intact? Received on Ice? COC/Labels Complete/Accurate? Cont. In Good Cond.? Correct Containers? Correct Sample Volumes? Correct Preservation? Headspace/Volatiles? Courier tracking #: _____	
ANALYSES/METHOD REQUESTED			
Enter Number of Containers Per Sample or Field Results Below.			
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	Matrx
2076025 002	6/9/15	1115	G SO 1
2076025 004	6/9/15	0915	G SO 1
2076025 006	6/9/15	1300	G SO 1
2076025 008	6/9/15	1005	G SO 1
2076025 010	6/9/15	1015	G SO 1
Project Comments: LOGGED BY (Signature): REVIEWED BY (Signature):			
Relinquished By / Company Name 1 <i>C. J.</i>	Date 1	Time 1541-2	Received By / Company Name 4
3			
5			6
7			8
9			10
* G=Grab; C=Composite **Matrx - A=Composite GW=Drinking Water; SW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WM=Wastewater			
Copies: WHITE • ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY			
EDDs: Format Type- _____			
Delivery Data	Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE <input type="checkbox"/>	Special Processing <input type="checkbox"/> USACE <input type="checkbox"/> Other <input type="checkbox"/>	State Samples Collected In PA <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> NC <input type="checkbox"/> other <input type="checkbox"/>
Reportable to PADEP?		Sample Disposal Yes <input type="checkbox"/> PWSID # _____	EDDs: Format Type- _____



CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

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**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #:	1 of 1
ALSI Quote #:	

Receipt Information (completed by Receiving Lab)									
Cooler Temp: _____ Therm. ID: _____ No. of Coolers: _____ Y N Initial Custody Seals Present? <input type="checkbox"/> (if present) Seals intact? <input type="checkbox"/> Received on ice? <input type="checkbox"/> COC Labels Complete/Accurate? <input type="checkbox"/> Cont. In Good Cond.? <input type="checkbox"/> Correct Containers? <input type="checkbox"/> Correct Sample Volumes? <input type="checkbox"/> Correct Preservation? <input type="checkbox"/> Headspace/Volatiles? <input type="checkbox"/> Courier Tracking #: _____									
ANALYSES/METHOD REQUESTED									
Matrix: _____ Distribution: _____ Enter Number of Containers Per Sample or Field Results Below.									
Sample/COC Comments Subcontract: ALSI-Kelso									
ALSI Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other:									
Standard <input type="checkbox"/> Deliverables <input type="checkbox"/> CLP-like <input type="checkbox"/> Data <input type="checkbox"/> USACE <input type="checkbox"/> Reportable to PADEP? <input type="checkbox"/> Yes <input type="checkbox"/> PWSID # _____									
Sample Disposal <input type="checkbox"/> Lab <input type="checkbox"/> Special <input type="checkbox"/> EDDs: Format Type- _____									
Project Comments: LOGGED BY (signature): REVIEWED BY (signature):									
Relinquished By / Company Name Date Time Received By / Company Name Date Time 1  6/17/15 17:2 2 4 3 6 6 5 8 7 10 9									
State Samples Collected In USACE <input type="checkbox"/> Navy <input type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other _____									



ALS Environmental
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www.alsglobal.com

July 05, 2015

Analytical Report for Service Request No: K1506480

Vicki Forney
ALS Environmental
34 Dogwood Lane
Middletown, PA 17057

RE: 2076025

Dear Vicki,

Enclosed are the results of the sample(s) submitted to our laboratory June 16, 2015
For your reference, these analyses have been assigned our service request number **K1506480**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager



ALS Environmental
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Table of Contents

Acronyms

Qualifiers

State Certifications, Accreditations, And Licenses

Chain of Custody

General Chemistry

Butyltins (as cation)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.alsGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Chain of Custody

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2015-07-09 11:20:19

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**Analytical
Laboratory Services, Inc.**

Environmental • Industrial Hygiene • Field Services

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**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

ALL SHADeD AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: ALS Environmental		Container Type	C	Container Size		Preservative		Custody Seal Present?		Cooler Temp:		Therm. ID:	
Address: 34 Dogwood Lane Middletown, PA 17057		Container Site	8 oz			None		(If present) Seal intact?				No. of Coolers:	
Contact: Vicki Penney Phone: (717) 944-5541		Approved By:						Received on Ice?				Initial	
Project Name #:		Date Required:						COC/Labels Complete/Accurate?					
Bill To: ALS Environmental		Email:						Cont. In Good Cond?					
1A: Rush Subject to ALS approval and surcharges		Approved By:						Correct Containers?					
Date Required:		Email:						Correct Sample Volumes?					
Email:		Fac:						Correct Preservation?					
Sample Description/Location		Sample Date	Time	# Matrx		# G or C		Headspace/Volatiles?					
Enter Number of Containers Per Sample or Field Results Below.													
Sample/COC Comments													
Subcontract: ALS-Kelso													
2076025 002		6/9/15	1115	G		SO		1					
2076025 004		6/9/15	0915	G		SO		1					
2076025 006		6/9/15	1300	G		SO		1					
2076025 008		6/9/15	1005	G		SO		1					
2076025 010		6/9/15	1015	G		SO		1					
Project Comments:		LOGGED BY (Signature):		REVIEWED BY (Signature):		Date		Time		Reportable to PADEP?		Sample Disposal:	
Relinquished By / Company Name		Date		Time		Received By / Company Name		Date		Yes		Lab	
1	S.C.	6/10/15		1100		ALS		09/15		<input type="checkbox"/>		<input type="checkbox"/>	
3										<input type="checkbox"/>		<input type="checkbox"/>	
5										<input type="checkbox"/>		<input type="checkbox"/>	
7										<input type="checkbox"/>		<input type="checkbox"/>	
9										<input type="checkbox"/>		<input type="checkbox"/>	
EDDS: Format Type: _____													
* G=Grab, C=Composite *Matrx - Alt-Air, DW=Drinking Water, GW=Groundwater, Oil=Oil; OL=Other Liquid, SL=Sludge; SO=Soil; WP=Waste Water													
Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY													

PC 44

Cooler Receipt and Preservation Form

Client / Project: ALS Middletown Service Request K15 6480Received: 6/10/15 Opened: 6/10/15 By: UK Unloaded: 6/10/15 By: UK

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corrected Temp	Raw Temp	Corrected Temp	Corr Factor	Thermometer	Cooler/COC ID	Tracking Number	Comments
-0.4	-0.4	2.1	2.1	0	353		7738 3605 4133	

4. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below.* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by

Sample ID	Bottle Count	Out of Headspace	Volume added	Reagent	Reagent Lot Number	Initials	Date

Notes, Discrepancies, & Resolutions:

Page of



ALS Environmental

General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Soil
Analysis Method: 160.3 Modified
Prep Method: None

Service Request: K1506480
Date Collected: 06/9/15
Date Received: 06/16/15
Units: Percent
Basis: NA

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
2076025 002	K1506480-001	63.5	-	1	06/17/15 15:55	
2076025 004	K1506480-002	60.7	-	1	06/17/15 15:55	
2076025 006	K1506480-003	63.0	-	1	06/17/15 15:55	
2076025 008	K1506480-004	34.4	-	1	06/17/15 15:55	
2076025 010	K1506480-005	19.6	-	1	06/17/15 15:55	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:**K1506480
Project: 2076025 **Date Collected:**NA
Sample Matrix: Soil **Date Received:**NA
Analysis Method: 160.3 Modified **Units:**Percent
Prep Method: None **Basis:**NA

Replicate Sample Summary
Solids, Total

Sample Name	Lab Code	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1505572-050DUP	-	60.6	60.7	60.7	<1	20	06/17/15
Batch QC	K1506492-001DUP	-	88.9	89.3	89.1	<1	20	06/17/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/19/2015 4:11:56 PM

Superset Reference: 15-0000336049 rev 00



Butyltins (as cation)

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ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Soil

Service Request: K1506480
Date Collected: 06/09/2015
Date Received: 06/16/2015

Butyltins (as cation)

Sample Name: 2076025 002 **Units:** ug/Kg
Lab Code: K1506480-001 **Basis:** Dry

Extraction Method: METHOD **Level:** Low
Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	67	10-120	06/24/15	Acceptable

Comments: _____

Printed: 06/25/2015 14:00:46

v:\Stech\Crystal\ rpt\Form1mNew.rpt

Merged

Form 1A - Organic

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SuperSet Reference: RR179198

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ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client: ALS Environmental - US
 Project: 2076025
 Sample Matrix: Soil

Service Request: K1506480
 Date Collected: 06/09/2015
 Date Received: 06/16/2015

Butyltins (as cation)

Sample Name: 2076025 004 Units: ug/Kg
 Lab Code: K1506480-002 Basis: Dry
 Extraction Method: METHOD Level: Low
 Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	1.7	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	76	10-120	06/24/15	Acceptable

Comments: _____

Printed: 06/25/2015 14:00:50
 u:\Sheath\Crystal\ptp\Forms\IntNew.rpt

Merged

Form IA - Organic

SuperSet Reference:

RR179198

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ALS Group USA, Corp. dba ALS Environmental

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Soil

Analytical Results

Service Request: K1506480
Date Collected: 06/09/2015
Date Received: 06/16/2015

Butyltins (as cation)

Sample Name: 2076025 006 **Units:** ug/Kg
Lab Code: K1506480-003 **Basis:** Dry
Extraction Method: METHOD **Level:** Low
Analysis Method: Krone

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	63	10-120	06/24/15	Acceptable

Comments: _____

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Form 1A - Organic

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SuperSet Reference:

RR179198

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ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client: ALS Environmental - US **Service Request:** K1506480
Project: 2076025 **Date Collected:** 06/09/2015
Sample Matrix: Soil **Date Received:** 06/16/2015

Butyltins (as cation)

Sample Name: 2076025 008 **Units:** ug/Kg
Lab Code: K1506480-004 **Basis:** Dry

Extraction Method: METHOD **Level:** Low
Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	2.9	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	88	10-120	06/24/15	Acceptable

Comments: _____

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SuperSet Reference: RR179198

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ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Soil

Service Request: K1506480
Date Collected: 06/09/2015
Date Received: 06/16/2015

Butyltins (as cation)

Sample Name: 2076025 010 **Units:** ug/Kg
Lab Code: K1506480-005 **Basis:** Dry
Extraction Method: METHOD **Level:** Low
Analysis Method: Krone

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	5.2	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	80	10-120	06/24/15	Acceptable

Comments: _____

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SuperSet Reference: RR179198

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ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480
Date Collected: NA
Date Received: NA

Butyltins (as cation)

Sample Name: Method Blank **Units:** ug/Kg
Lab Code: KWG1505433-5 **Basis:** Dry
Extraction Method: METHOD **Level:** Low
Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	0.98	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	56	10-120	06/24/15	Acceptable

Comments: _____

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QA/QC Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method:	METHOD	Units: Percent
Analysis Method:	Krone	Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Batch QC	K1506354-001	75
2076025 002	K1506480-001	67
2076025 004	K1506480-002	76
2076025 006	K1506480-003	63
2076025 008	K1506480-004	88
2076025 010	K1506480-005	80
Batch QCDUP	KWG1505433-1	73
Method Blank	KWG1505433-5	56
Batch QCMS	KWG1505433-2	77
Batch QCDMS	KWG1505433-3	70
Lab Control Sample	KWG1505433-4	76

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 10-120

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480
Date Extracted: 06/18/2015
Date Analyzed: 06/24/2015

**Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)**

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1506354-001	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone	Extraction Lot:	KWG1505433

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Tri-n-butyltin Cation	ND	20.8	30.9	67	21.7	30.9	70	10-115	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480
Date Extracted: 06/18/2015
Date Analyzed: 06/24/2015

Duplicate Sample Summary
Butyltins (as cation)

Sample Name:	Batch QC	Units:	ug/Kg
Lab Code:	K1506354-001	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone	Extraction Lot:	KWG1505433

Analyte Name	MRL	Sample Result	Batch QCDUP		Relative Percent Difference	RPD Limit
			Duplicate Sample Result	Average		
Tri-n-butyltin Cation	1.4	ND	ND	ND	-	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3B - Organic

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480
Date Extracted: 06/18/2015
Date Analyzed: 06/24/2015

Lab Control Spike Summary Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: ug/Kg
Basis: Dry
Level: Low
Lot: KWG1505433

Lab Control Sample
KGW1505433-4
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Tri-n-butyltin Cation	16.8	22.2	76	10-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

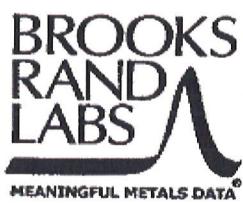
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Form 3C - Organic

SuperSet Reference: RR179198

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June 30, 2015

ALS - Middletown
ATTN: Vicki Forney
34 Dogwood Lane
Middletown PA 17057
vicki.forney@alsglobal.com

RE: Project ALS-MD1501

Client Project: 2076025

Dear Vicki Forney,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 16, 2015. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a concentration much less than the native sample and were not analyzed. A post-preparation spike (PS) was analyzed and recovered within acceptance criteria.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves
Project Manager
Lydia@brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/about/accreditations-certifications/>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCB	continuing calibration blank	N/C	not calculated
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
D	dissolved fraction	RPD	relative percent difference
DUP	duplicate	RSD	relative standard deviation
IBL	instrument blank	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

- B Detected by the instrument, the result is $>$ the MDL but \leq the MRL. Result is reported and considered an estimate.
- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- H Holding time and/or preservation requirements not met. Result is estimated.
- J Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is \leq the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2076025 002	1525011-01	Soil	Sample	06/09/2015	06/16/2015
2076025 004	1525011-02	Soil	Sample	06/09/2015	06/16/2015
2076025 006	1525011-03	Soil	Sample	06/09/2015	06/16/2015
2076025 008	1525011-04	Soil	Sample	06/09/2015	06/16/2015
2076025 010	1525011-05	Soil	Sample	06/09/2015	06/16/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	06/24/2015	06/28/2015	B150975	N/A
As(III)	Soil/Sediment	EPA 1632	06/24/2015	06/24/2015	B150974	1500505

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2076025 002										
1525011-01	%TS	Soil	NA	65.61		0.36	1.20	%	B150975	N/A
1525011-01	As(III)	Soil	dry	15.0		1.96	5.89	mg/kg	B150974	1500505
2076025 004										
1525011-02	%TS	Soil	NA	65.34		0.36	1.20	%	B150975	N/A
1525011-02	As(III)	Soil	dry	2.33		0.498	1.49	mg/kg	B150974	1500505
2076025 006										
1525011-03	%TS	Soil	NA	65.93		0.36	1.20	%	B150975	N/A
1525011-03	As(III)	Soil	dry	3.01		0.230	0.691	mg/kg	B150974	1500505
2076025 008										
1525011-04	%TS	Soil	NA	43.73		0.36	1.20	%	B150975	N/A
1525011-04	As(III)	Soil	dry	1.78		0.346	1.04	mg/kg	B150974	1500505
2076025 010										
1525011-05	%TS	Soil	NA	28.38		0.36	1.20	%	B150975	N/A
1525011-05	As(III)	Soil	dry	0.877		0.125	0.376	mg/kg	B150974	1500505

Accuracy & Precision Summary

Batch: B150974

Lab Matrix: Soil/Sediment

Method: EPA 1632

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150974-BS1	Laboratory Fortified Blank (1523014) As(III)		1.204	1.171	mg/kg	97% 50-150	
B150974-BS2	Laboratory Fortified Blank (1523029) As(III)		1.204	1.128	mg/kg	94% 50-150	
B150974-SRM1	Certified Reference Material (1505010, PACS-3) As(III)		4.752	5.887	mg/kg	124% 50-150	
B150974-DUP1	Duplicate (1525011-01) As(III)	14.95		13.00	mg/kg		14% 35
B150974-PS1	Post Spike (1525011-01) As(III)	14.95	24.62	39.43	mg/kg	99% 65-135	

Accuracy & Precision Summary

Batch: B150975

Lab Matrix: Soil/Sediment

Method: SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150975-DUP1	Duplicate (1525011-01) %TS	65.61		65.78	%		0.3% 15

Method Blanks & Reporting Limits

Batch: B150974

Matrix: Soil/Sediment

Method: EPA 1632

Analyte: As(III)

Sample	Result	Units
B150974-BLK1	0.051	mg/kg wet
B150974-BLK2	0.046	mg/kg wet
B150974-BLK3	0.047	mg/kg wet
B150974-BLK4	0.049	mg/kg wet
Average:	0.048	Standard Deviation: 0.002
	Limit: 0.080	MDL: 0.040
		Limit: 0.027
		MRL: 0.120

Method Blanks & Reporting Limits

Batch: B150975
Matrix: Soil/Sediment
Method: SM 2540G
Analyte: %TS

Sample	Result	Units	
B150975-BLK1	0.00	%	
B150975-BLK2	0.00	%	
	Average: 0.00		MDL: 0.36
	Limit: 1.20		MRL: 1.20

Sample Containers

Lab ID: 1525011-01 Sample: 2076025 002	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015	pH Ship. Cont. cooler
Lab ID: 1525011-02 Sample: 2076025 004	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015	pH Ship. Cont. cooler
Lab ID: 1525011-03 Sample: 2076025 006	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015	pH Ship. Cont. cooler
Lab ID: 1525011-04 Sample: 2076025 008	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015	pH Ship. Cont. cooler
Lab ID: 1525011-05 Sample: 2076025 010	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015	pH Ship. Cont. cooler

Shipping Containers

cooler

Received: June 16, 2015 9:05
Tracking No: 773836255661 via FedEx
Coolant Type: Ice
Temperature: 0.1 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes



**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.842.5521 • Fax: 717.944.1430

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: ALS Environmental		Container Type	C			Receipt Information (Completed by Receiving Lab)	
Address: 34 Dogwood Lane Middletown, PA 17057		Container Size	4 oz			Cooler Temp: _____ Therm. ID: _____	
Contact: Vicki Farney Phone#: (717) 944-5541		Preservative	None			No. of Coolers: _____ Y N Initial	
ANALYSES/METHOD REQUESTED							
Trivalent Arsenic							
Matrix							
Sample Description/Location (as it will appear on the lab report)							
Date	Time	Enter Number of Containers Per Sample or Field Results Below.					
2076025 002	6/9/15	1115	G	S0	1		
2076025 004	6/9/15	0915	G	S0	1		
2076025 006	6/9/15	1300	G	S0	1		
2076025 008	6/9/15	1005	G	S0	1		
2076025 010	6/9/15	1015	G	S0	1		
LOGGED BY (Signature):							
REVIEWED BY (Signature):							
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
3		6/16/15	10:45	4		6/16/15	6:55
5				6			
7				8			
9				10			
ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other:							
Standard <input type="checkbox"/> Standard Deliverables <input type="checkbox"/> CLP like <input type="checkbox"/> USACE Data <input type="checkbox"/> Lab <input type="checkbox"/> NY Reportable to PADEP? <input type="checkbox"/> NJ Yes <input type="checkbox"/> PWSID# <input type="checkbox"/> Special <input type="checkbox"/> NC EDBs: Format Type- <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> other							
State Samples Collected In USACE <input type="checkbox"/> Navy <input type="checkbox"/> NY Lab <input type="checkbox"/> Other: <input type="checkbox"/>							